



PARAHO DEVELOPMENT CORPORATION

RECEIVED
DEC 20 1982

November 19, 1982

DIVISION OF
OIL, GAS & MINING

Mr. Lloyd H. Ferguson
U.S. Department of Interior
Bureau of Land Management
Vernal District Office
170 South 5 East
Vernal, UT 84078

SUBJECT: Paraho-Ute Facility Rights-of-Way (R-O-W)

REF: Your Letter (2800/U-48942/U-830) 10/18/82

Dear Mr. Ferguson:

I have received your referenced review of the subject Rights-of-Way. Enclosed with this letter is information concerning four (4) R-O-W applications for the Paraho-Ute Facility. These are:

- (1) Main Access Road, Filed May 28, 1981,
H. Pforzheimer, Jr. to D. Stepanek
Check for \$150.00 (2.06 mile)
- (2) Product Pipeline, Filed September 23, 1981,
R. N. Heistand to R. G. Robison, Jr.
Form SF 299
Description of Project
Map of area
Check for \$450.00 (3.5 miles plus 1 acre)
- (3) Construction Access Road, Filed November 19, 1982,
R. N. Heistand to L. H. Ferguson
Form SF 299
Description of Project
Map of Area
Check for \$100.00 (1.8 mile)
- (4) Water Acquisition, Filed November 19, 1982,
R. N. Heistand to L. H. Ferguson
Form SF 299
Description of Project
Map of Area
Check for \$600.00 (1.9 mile plus 80 acres)

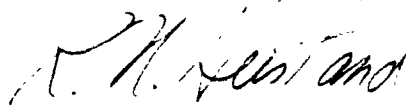
Mr. Lloyd H. Ferguson
U.S. Department of Interior
Bureau of Land Management
November 19, 1982

Page 2

This should complete our R-O-W applications needed for the Paraho-Ute Project. Utility R-O-W's will be filed by Moon Lake and Mountain Bell. Should you require additional information, please do not hesitate to call.

We look forward to receiving approval of these R-O-W applications by March 25, 1983 (thirty days after the FEIS is issued). Please review the enclosed applications for completeness as soon as possible so that final approval will not be delayed.

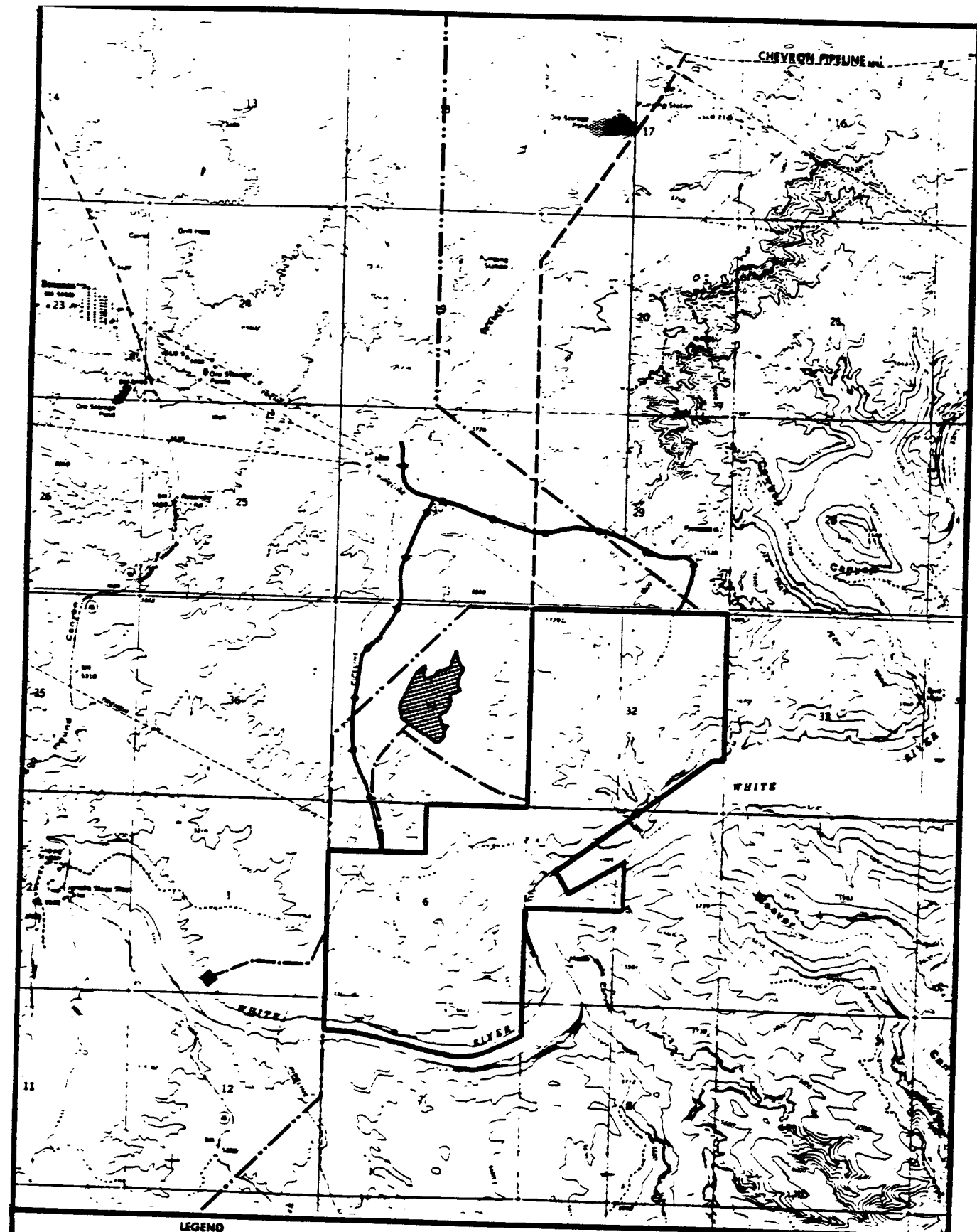
Sincerely,

A handwritten signature in dark ink, appearing to read "R. N. Heistand", is written over a light, circular, textured background.

R. N. Heistand
Vice President
Environmental Affairs

RH:ks

enclosures



LEGEND

- PROJECT BOUNDARY
- ACCESS ROAD
- PRODUCT PIPELINE
- INTAKE
- STORAGE POND
- WATER LINE
- POWERLINE



PARAHO-UTE PROJECT

PROPOSED
RIGHT-OF-WAY CORRIDORS

CHECK:

(1)	Main Access Road	\$150.00
(2)	Product Pipeline	\$450.00
(3)	Construction Access Road	\$100.00
(4)	Water Acquisition	<u>\$600.00</u>
	<u>TOTAL</u>	<u>\$1,300.00</u>

Product Pipeline

STANDARD FORM 299 (12-81)
Prescribed by DOI/USDA/DOT
P.L. 96-487 and Federal Register
Notice 6-3-81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004-0060
Expires May 31, 1983

NOTE: Before filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number

Date filed

1. Name and address of applicant (include zip code)

Paraho Development Corporation
183 Inverness Drive West
Englewood, CO 80112

2. Name, title, and address of authorized agent if different from Item 1 (include zip code)

Robert N. Heistand
Vice President of
Environmental Affairs

3. TELEPHONE (area code)

Applicant
303-694-4949

Authorized Agent
303-694-4949

4. As applicant are you? (check one)

- a. ☐ Individual
b. ☒ Corporation*
c. ☐ Partnership/Association*
d. ☐ State Government/State Agency
e. ☐ Local Government
f. ☐ Federal Agency

* If checked, complete supplemental page

5. Specify what application is for: (check one)

- a. ☒ New authorization
b. ☐ Renew existing authorization No. _____
c. ☐ Amend existing authorization No. _____
d. ☐ Assign existing authorization No. _____
e. ☐ Existing use for which no authorization has been received*
f. ☐ Other*

* If checked, provide details under Item 7

6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description (describe in detail): (a) Type of system or facility, (e.g. canal, pipeline, road); (b) related structures and facilities; (c) physical specifications (length, width, grading, etc.); (d) term of years needed; (e) time of year of use or operation; (f) volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. (Attach additional sheets, if additional space is needed.)

See attached sheet.

8. Attach map covering area and show location of project proposal

9. State or local government approval: ☐ Attached ☐ Applied for ☒ Not required

10. Nonreturnable application fee: ☒ Attached ☐ Not required

11. Does project cross international boundary or affect international waterways? ☐ Yes ☒ No (If "yes," indicate on map)

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

Statement of technical and financial capability will be filed later.

13a. Describe other reasonable alternative routes and modes considered.

1. One alternative routing would extend northwest from Section 32 to the Chevron pipeline.
2. Another alternative route would extend northeast from Section 32 to the Chevron pipeline.

b. Why were these alternatives not selected?

1. This alternative would disturb more acreage and would incur greater costs.
2. This alternative would cross through congested areas and cross rough terrain which would be detrimental to both construction and maintenance of the lines.

c. Give explanation as to why it is necessary to cross Federal lands.

It is necessary for the pipeline to cross Federal lands as it is the most direct route for transportation of the shale oil.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. (Specify number, date, code, or name.)

Right-of-Way Filing, May 28, 1981 for main access road, serial number U48942 Paraho Development Corporation.
Right-of-Way Filing for oil pipeline, Paraho Development Corporation.
Sept. 23, 1981

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal (construction, operation, and maintenance); (b) estimated cost of next best alternative; and (c) expected public benefits.

The pipeline is needed to transport the product. (a) The cost of the pipeline construction is estimated to be \$4,170,000. Annual operation and maintenance costs are estimated at \$434,000. (b) No costs are available for the alternatives although it is expected that they would be significantly higher. (c) Expected public benefits are included in the Uintah Basin Synfuels Environmental Impact Statement.

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

The probable effects are included in the Uintah Basin Synfuels Environmental Impact Statement.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

The likely environmental effects are included in the Uintah Basin Synfuels Environmental Impact Statement.

18. Describe the probable effects that the proposed project will have on: (a) populations of fish, plant, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

The probable effects are included in the Uintah Basin Synfuels Environmental Impact Statement.

19. Name all the Department(s)/Agency(ies) where this application is being filed.

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

Robert M. Heistand

Date

Nov 19, 1982

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS
AND FACILITIES ON FEDERAL LANDS

GENERAL INFORMATION

This application will be used when applying for a right-of-way, permit, license, lease, or certificate for the use of Federal lands which lie within conservation system units and National Recreation or Conservation Areas as defined in the Alaska National Interest Lands Conservation Act. Conservation system units include the National Park System, National Wildlife Refuge System, National Wild and Scenic Rivers System, National Trails System, National Wilderness Preservation System, and National Forest Monuments.

Individual departments/agencies may authorize the use of this form by applicants for transportation and utility systems and facilities on other Federal lands outside those areas described above.

Transportation and utility systems and facility uses for which the application may be used are:

1. Reservoirs, canals, ditches, flumes, laterals, pipes, pipelines, tunnels, and other systems for the storage, transportation, or distribution of water.
2. Pipelines and other systems for the transportation of gases and liquids other than water.
3. Pipelines, slurry and emulsion systems, and conveyor belts for transportation of solid materials.
4. Systems for the generation, transmission, and distribution of electric energy.
5. Systems for transmission or reception of radio, television, telephone, telegraph, and other electronic signals, and other means of communications.
6. Improved rights-of-way for snow machines, air cushion vehicles, and all-terrain vehicles.
7. Roads, highways, railroads, tunnels, tramways, airways, airports, landing strips, docks, and other systems of general transportation.
8. Other use of Federal lands for which a Federal right-of-way, lease, permit, license, certificate or authorization is required.

FILING INFORMATION

This application *must* be filed simultaneously with each Federal department or agency requiring authorization to establish and operate your proposal.

For proposals located outside of Alaska, applications will be filed at the local agency office or at a location specified by the responsible Federal agency.

In Alaska, the following agencies will help the applicant file an application and identify the other agencies the applicant should contact and possibly file with:

Department of Agriculture
Regional Forester, Forest Service (USFS)
Federal Office Building, P.O. Box 1628
Juneau, Alaska 99802
Telephone: (907) 588-7247 (or a local Forest Service Office)

Department of Interior
Bureau of Indian Affairs (BIA)
Juneau Area Office, P.O. Box 3-8000
Juneau, Alaska 99802
Telephone: (907) 586-7209

Bureau of Land Management (BLM)
701 C Street, Box 13
Anchorage, Alaska 99513
Telephone: (907) 271-5055 (or a local BLM Office)

National Park Service (NPS)
Alaska Regional Office, 540 West 5th Avenue, Room 202
Anchorage, Alaska 99501
Telephone: (907) 271-4196

U.S. Fish & Wildlife Service (FWS)
Office of the Regional Director
1011 East Tudor Road
Anchorage, Alaska 99503
Telephone: (907) 276-3800

Note-Filings with any Interior agency may be filed with any office noted above or with the: Office of the Secretary of the Interior, Regional Environmental Officer, Box 120, 1675 C Street, Anchorage, Alaska 99513.

Department of Transportation
Federal Aviation Administration
Alaska Region AAL-4, P.O. 14
Anchorage, Alaska 99513

NOTE - The Department of Transportation has established the above central filing point for agencies within that Department. Affected agencies are: Federal Aviation Administration (FAA), Coast Guard (USCG), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA).

SPECIFIC INSTRUCTIONS
(Items not listed are self-explanatory)

Item

- 7 Attach preliminary site and facility construction plans. The responsible agency will provide instructions whenever specific plans are required.
 - 8 Generally, the map *must* show the section(s), township(s), and range(s) within which the project is to be located. Show the proposed location of the project on the map as accurately as possible. Some agencies require detailed survey maps. The responsible agency will provide additional instructions.
 - 9, 10, and 12 - The responsible agency will provide additional instructions.
 - 13 Providing information on alternate routes and modes in as much detail as possible, discussing why certain routes or modes were rejected and why it is necessary to cross Federal lands will assist the agency(ies) in processing your application and reaching a final decision. Include only reasonable alternate routes and modes as related to current technology and economics.
 - 14 The responsible agency will provide instructions.
 - 15 Generally, a simple statement of the purpose of the proposal will be sufficient. However, major proposals located in critical or sensitive areas may require a full analysis with additional specific information. The responsible agency will provide additional instructions.
 - 16 through 18 - Providing this information in as much detail as possible will assist the Federal agency(ies) in processing the application and reaching a decision. When completing these items, you should use sound judgment in furnishing relevant information. For example, if the project is not near a stream or other body of water, *do not* address this subject. The responsible agency will provide additional instructions.
- Application *must* be signed by the applicant or applicant's authorized representative.

If additional space is needed to complete any item, please put the information on a separate sheet of paper and identify it as "Continuation of Item

(For Supplemental, see reverse)

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions.	CHECK APPROPRIATE BLOCK	
I – PRIVATE CORPORATIONS	ATTACHED	FILED *
a. Articles of Incorporation	<input type="checkbox"/>	<input type="checkbox"/>
b. Corporation Bylaws	<input type="checkbox"/>	<input type="checkbox"/>
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	<input type="checkbox"/>	<input type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input type="checkbox"/>
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	<input type="checkbox"/>	<input type="checkbox"/>
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	<input type="checkbox"/>	<input type="checkbox"/>
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	<input type="checkbox"/>	<input type="checkbox"/>

II – PUBLIC CORPORATIONS

a. Copy of law forming corporation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Proof of organization	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Copy of Bylaws	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input checked="" type="checkbox"/>	<input type="checkbox"/>

III – PARTNERSHIP OR OTHER UNINCORPORATED ENTITY

a. Articles of association, if any	<input type="checkbox"/>	<input type="checkbox"/>
b. If one partner is authorized to sign, resolution authorizing action is	<input type="checkbox"/>	<input type="checkbox"/>
c. Name and address of each participant, partner, association, or other	<input type="checkbox"/>	<input type="checkbox"/>
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input type="checkbox"/>	<input type="checkbox"/>

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information (e.g. number, date, code, name). If not on file or current, attach the requested information.

Right-of-Way Filing - May 28, 1981 for main access road, serial number U 48942, Paraho Development Corporation

Right-of-Way Filing - September 23, 1981 for oil pipeline, Paraho Development Corporation

NOTICE

The Privacy Act of 1974 provides that you be furnished the following information in connection with information required by this application for an authorization.

AUTHORITY: 16 U.S.C. 310, 5 U.S.C. 301.

PRINCIPAL PURPOSE: The information is to be used to process the application.

ROUTINE USES: (1) The processing of the applicant's request for an authorization. (2) Documentation for public information.

(3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is voluntary. If all the information is not provided, the application may be rejected.

DATA COLLECTION STATEMENT

The Federal agencies collect this information from applicants requesting right-of-way, permit, license, lease, or certification for the use of Federal lands.

The Federal agencies use this information to evaluate the applicant's proposal.

The public is obligated to respond to this information request if they wish to obtain permission to use Federal lands.

PRODUCT PIPELINE

7. Project Description

7. A. Paraho proposes to construct a 12 inch product pipeline in a 100 foot wide right-of-way which would provide connection to the Chevron pipeline from Rangely to Salt Lake City. Routing would follow the section lines of Sections 29 and 20, north to the existing Mapco pipeline corridor in Section 20. Then the pipeline would follow the existing Mapco pipeline corridor for connection with the Chevron pipeline.

B. Related structures and facilities will include a scraper trap, a 3,000 barrel relief storage tank and a small 10-foot by 20-foot prefabricated building to house the remote metering system and station instrumentation. The connection facilities will disturb approximately one acre.

It is anticipated that there will be one county road crossing and three unimproved road crossings (one of which will be the main project access road).

C. The proposed right-of-way corridor will be 100 feet wide with an operating width of 20 feet. The total length of the pipeline will be 3.5 miles.

D. The proposed pipeline will be utilized throughout operation of the Paraho-Ute Shale Oil Facility.

E. The pipeline will be used year-round.

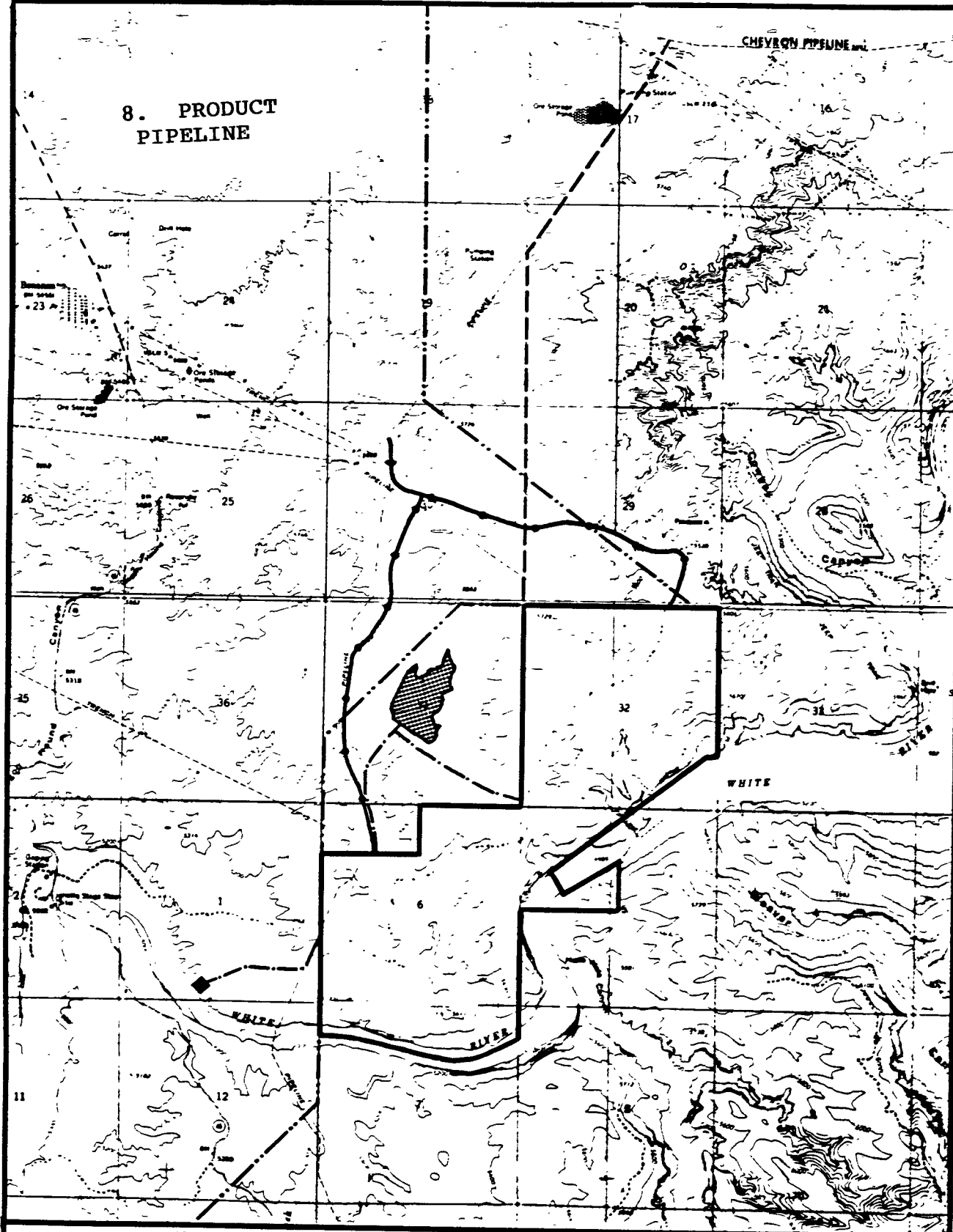
F. The design flow rate for the 12 inch pipeline is 72,000 barrels per day of hydrotreated shale oil. The pump station located on the project site will pump the shale oil at 1,200 psig on into the Chevron pipeline.

G. It is anticipated that construction would take place over a six month period with construction to begin in 1985.

H. All temporary work areas will be on Paraho land or else be contained within the 100-foot right-of-way and the one acre disturbed land at the terminal end. The total disturbed acreage will be 43 acres.

This information was taken from "Description of Facilities, Paraho Commercial Feasibility Study, Task 9, Product and By-Product Handling Plan, Section III - Pipeline Design" sent to R. G. Robison, September 23, 1981.

8. PRODUCT PIPELINE



LEGEND

- PROJECT BOUNDARY
- ACCESS ROAD
- - - PRODUCT PIPELINE
- INTAKE
- ▨ STORAGE POND
- WATER LINE
- - - POWERLINE



PARAHO-UTE PROJECT

**PROPOSED
RIGHT-OF-WAY CORRIDORS**

CONSTRUCTION ACCESS ROAD

STANDARD FORM 299 (12-81)
Prescribed by DOI/USDA/DOT
P.L. 96-487 and Federal Register
Notice 6-3-81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004-0060
Expires May 31, 1983

NOTE: Before filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number

Date filed

1. Name and address of applicant (include zip code) Paraho Development Corporation 183 Inverness Drive West Englewood, CO 80112	2. Name, title, and address of authorized agent if different from Item 1 (include zip code) Robert N. Heistand Vice President of Environmental Affairs	3. TELEPHONE (area code) Applicant 303-694-4949 Authorized Agent 303-694-4949
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4. As applicant are you? (check one) a. <input type="checkbox"/> Individual b. <input checked="" type="checkbox"/> Corporation* c. <input type="checkbox"/> Partnership/Association* d. <input type="checkbox"/> State Government/State Agency e. <input type="checkbox"/> Local Government f. <input type="checkbox"/> Federal Agency * If checked, complete supplemental page	5. Specify what application is for: (check one) a. <input checked="" type="checkbox"/> New authorization b. <input type="checkbox"/> Renew existing authorization No. _____ c. <input type="checkbox"/> Amend existing authorization No. _____ d. <input type="checkbox"/> Assign existing authorization No. _____ e. <input type="checkbox"/> Existing use for which no authorization has been received* f. <input type="checkbox"/> Other* * If checked, provide details under Item 7
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6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description (describe in detail): (a) Type of system or facility, (e.g. canal, pipeline, road); (b) related structures and facilities; (c) physical specifications (length, width, grading, etc.); (d) term of years needed; (e) time of year of use or operation; (f) volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. (Attach additional sheets, if additional space is needed.)

- A. Paraho proposes to construct a 24 foot wide asphalt road in a 200 foot wide right-of-way which would provide access from the main plant site road to the mancamp. Routing would follow an existing dirt road in the center of Section 30 and would run to the mancamp. The proposed roadway would follow the existing dirt road in a southerly direction through Sections 30, 31 and 6 and terminate at the proposed mancamp in the southwest portion of Sec. 6.
- B. The only related structures required will be the placement of drainage culverts at strategic locations along the road.
- C. The proposed road will consist of a 24 foot wide asphalt road and will be approximately 9,800 feet long to the project boundary and 4,700 feet long within the project boundary to the camp location.
- D. It is anticipated the access road will be used for a 10 year duration, mainly during the construction phase.
- E. The access road will be used year-round.
- F. A maximum of five tractor trailers per day will deliver supplies to the camp; a maximum of five vans per day will deliver supplies to the camp; a maximum of 500 personal vehicles per week day will traverse the access road; and a maximum of 500 personal vehicles per day on weekends will traverse the access road.
- G. It is anticipated that construction would take place over a 6 month period with construction to begin in June of 1983.
- H. All temporary work areas will be on Paraho land or else be contained within the 200 foot right-of-way.

8. Attach map covering area and show location of project proposal

9. State or local government approval: ☐ Attached ☐ Applied for ☒ Not required

10. Nonreturnable application fee: ☒ Attached ☐ Not required 1.8 miles

11. Does project cross international boundary or affect international waterways? ☐ Yes ☒ No (If "yes," indicate on map)

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

The statement of technical and financial capability will be filed later.

13a. Describe other reasonable alternative routes and modes considered.

The only other alternative considered was to route all mancamp traffic through Sections 30 and 29 on the road leading to the plant site, thence through the plant site is Section 32, and thence through section 6.

b. Why were these alternatives not selected?

Paraho desires to minimize vehicle traffic in the area of the plant site during construction. As an incentive to accomplishing this measure, Paraho proposes to transport construction workers from the mancamp to the plant site on buses. The most logical alternative to separate the mancamp traffic is to upgrade the existing road from the access road to the mancamp. During the latter stages of construction the retorted shale pile may cover the existing road between the mancamp and plant site in the northwest quadrant of Section 6. This would necessitate transporting workers along the proposed road to the

c. Give explanation as to why it is necessary to cross Federal lands. /plant site road in Section 32.

The most direct route from existing or proposed high quality roads to the mancamp utilizes an existing dirt road which crosses Federal lands for approximately 1.6 miles.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. (Specify number, date, code, or name.)

Right-of-Way Filing, May 28, 1981 for main access road to project site, Paraho Development Corporation, Serial number U 48942
Right-of-Way Filing, September 23, 1981 for oil pipeline, Paraho Development Corporation.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal (construction, operation, and maintenance); (b) estimated cost of next best alternative; and (c) expected public benefits. This project is needed to provide access to the mancamp and diverts the flow of traffic from the heavy construction area at the plant site. (a) The estimated initial construction cost is \$350,000 with maintenance costs of approximately \$5,000 annually. (b) No other alternative is feasible. (c) Expected public benefits are covered in the Uintah Basin Synfuels Environmental Impact Statement.

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

The probable effects on the population in the area are covered in the Uintah Basin Synfuels Environmental Impact Statement.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

The likely environmental effects are covered in the Uintah Basin Synfuels Environmental Impact Statement.

18. Describe the probable effects that the proposed project will have on: (a) populations of fish, plant, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

These effects are covered in the Uintah Basin Synfuels Environmental Impact Statement.

19. Name all the Department(s)/Agency(ies) where this application is being filed.

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

Robert M. Heistand

Date

7/19/82

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions.

CHECK APPROPRIATE
BLOCK

I – PRIVATE CORPORATIONS

ATTACHED

FILED *

a. Articles of Incorporation

☐
☐

b. Corporation Bylaws

☐
☐

c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.

☐
☐

d. Copy of resolution authorizing filing

☐
☐

e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.

☐
☐

f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.

☐
☐

g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.

☐
☐

II – PUBLIC CORPORATIONS

a. Copy of law forming corporation

☐
☒

b. Proof of organization

☐
☒

c. Copy of Bylaws

☐
☒

d. Copy of resolution authorizing filing

☐
☒

e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.

☐
☐

III – PARTNERSHIP OR OTHER UNINCORPORATED ENTITY

a. Articles of association, if any

☐
☐

b. If one partner is authorized to sign, resolution authorizing action is

☐
☐

c. Name and address of each participant, partner, association, or other

☐
☐

d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.

☐
☐

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information (e.g. number, date, code, name). If not on file or current, attach the requested information.

Right-of-Way Filing, May 28, 1981 for main access road to project site serial number U 48942, Paraho Development Corporation.

Right-of-Way Filing, September 23, 1981 for oil pipeline, Paraho Development Corporation.

NOTICE

The Privacy Act of 1974 provides that you be furnished the following information in connection with information required by this application for an authorization.

AUTHORITY: 16 U.S.C. 310; 5 U.S.C. 301.

PRINCIPAL PURPOSE: The information is to be used to process the application.

ROUTINE USES: (1) The processing of the applicant's request for an authorization. (2) Documentation for public information.

(3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is voluntary. If all the information is not provided, the application may be rejected.

DATA COLLECTION STATEMENT

The Federal agencies collect this information from applicants requesting right-of-way, permit, license, lease, or certification for the use of Federal lands.

The Federal agencies use this information to evaluate the applicant's proposal.

The public is obligated to respond to this information request if they wish to obtain permission to use Federal lands.

CONSTRUCTION ACCESS ROAD

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

GENERAL INFORMATION

This application will be used when applying for a right-of-way, permit, license, lease, or certificate for the use of Federal lands which lie within conservation system units and National Recreation or Conservation Areas as defined in the Alaska National Interest Lands Conservation Act. Conservation system units include the National Park System, National Wildlife Refuge System, National Wild and Scenic Rivers System, National Trails System, National Wilderness Preservation System, and National Forest Monuments.

Individual departments/agencies may authorize the use of this form by applicants for transportation and utility systems and facilities on other Federal lands outside those areas described above.

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1. Reservoirs, canals, ditches, flumes, laterals, pipes, pipelines, tunnels, and other systems for the storage, transportation, or distribution of water.
2. Pipelines and other systems for the transportation of gases and liquids other than water.
3. Pipelines, slurry and emulsion systems, and conveyor belts for transportation of solid materials.
4. Systems for the generation, transmission, and distribution of electric energy.
5. Systems for transmission or reception of radio, television, telephone, telegraph, and other electronic signals, and other means of communications.
6. Improved rights-of-way for snow machines, air cushion vehicles, and all-terrain vehicles.
7. Roads, highways, railroads, tunnels, tramways, airways, airports, landing strips, docks, and other systems of general transportation.
8. Other use of Federal lands for which a Federal right-of-way, lease, permit, license, certificate or authorization is required.

FILING INFORMATION

This application *must* be filed simultaneously with each Federal department or agency requiring authorization to establish and operate your proposal.

For proposals located outside of Alaska, applications will be filed at the local agency office or at a location specified by the responsible Federal agency.

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Regional Forester, Forest Service (USFS)
Federal Office Building, P.O. Box 1628
Juneau, Alaska 99802
Telephone: (907) 588-7247 (or a local Forest Service Office)

Department of Interior
Bureau of Indian Affairs (BIA)
Juneau Area Office, P.O. Box 3-8000
Juneau, Alaska 99802
Telephone: (907) 586-7209

Bureau of Land Management (BLM)
701 C Street, Box 13
Anchorage, Alaska 99513
Telephone: (907) 271-5055 (or a local BLM Office)

National Park Service (NPS)
Alaska Regional Office, 540 West 5th Avenue, Room 202
Anchorage, Alaska 99501
Telephone: (907) 271-4196

U.S. Fish & Wildlife Service (FWS)
Office of the Regional Director
1011 East Tudor Road
Anchorage, Alaska 99503
Telephone: (907) 276-3800

Note-Filings with any Interior agency may be filed with any office noted above or with the: Office of the Secretary of the Interior, Regional Environmental Officer, Box 120, 1675 C Street, Anchorage, Alaska 99513.

Department of Transportation
Federal Aviation Administration
Alaska Region AAL-4, P.O. 14
Anchorage, Alaska 99513

NOTE - The Department of Transportation has established the above central filing point for agencies within that Department. Affected agencies are: Federal Aviation Administration (FAA), Coast Guard (USCG), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA).

SPECIFIC INSTRUCTIONS (Items not listed are self-explanatory)

Item

- 7 Attach preliminary site and facility construction plans. The responsible agency will provide instructions whenever specific plans are required.
 - 8 Generally, the map *must* show the section(s), township(s), and range(s) within which the project is to be located. Show the proposed location of the project on the map as accurately as possible. Some agencies require detailed survey maps. The responsible agency will provide additional instructions.
 - 9, 10, and 12 - The responsible agency will provide additional instructions.
 - 13 Providing information on alternate routes and modes in as much detail as possible, discussing why certain routes or modes were rejected and why it is necessary to cross Federal lands will assist the agency(ies) in processing your application and reaching a final decision. Include only reasonable alternate routes and modes as related to current technology and economics.
 - 14 The responsible agency will provide instructions.
 - 15 Generally, a simple statement of the purpose of the proposal will be sufficient. However, major proposals located in critical or sensitive areas may require a full analysis with additional specific information. The responsible agency will provide additional instructions.
 - 16 through 18 - Providing this information in as much detail as possible will assist the Federal agency(ies) in processing the application and reaching a decision. When completing these items, you should use sound judgment in furnishing relevant information. For example, if the project is not near a stream or other body of water, *do not* address this subject. The responsible agency will provide additional instructions.
- Application *must* be signed by the applicant or applicant's authorized representative.

If additional space is needed to complete any item, please put the information on a separate sheet of paper and identify it as "Continuation of Item

(For Supplemental, see reverse)

PROPOSED MANCAMP ACCESS ROAD

Water Acquisition

STANDARD FORM 299 (12-81)
Prescribed by DOI/USDA/DOT
P.L. 96-487 and Federal Register
Notice 6-3-81

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS AND FACILITIES ON FEDERAL LANDS

FORM APPROVED
OMB NO. 1004-0060
Expires May 31, 1983

FOR AGENCY USE ONLY

Application Number

Date filed

NOTE: Before filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

1. Name and address of applicant (include zip code)

Paraho Development Corporation
183 Inverness Drive West
Englewood, CO 80112

2. Name, title, and address of authorized agent if different from Item 1 (include zip code)

Robert N. Heistand
Vice President of
Environmental Affairs

3. TELEPHONE (area code)

Applicant
303-694-4949

Authorized Agent
303-694-4949

4. As applicant are you? (check one)

- a. ☐ Individual
b. ☒ Corporation*
c. ☐ Partnership/Association*
d. ☐ State Government/State Agency
e. ☐ Local Government
f. ☐ Federal Agency

* If checked, complete supplemental page

5. Specify what application is for: (check one)

- a. ☒ New authorization
b. ☐ Renew existing authorization No. _____
c. ☐ Amend existing authorization No. _____
d. ☐ Assign existing authorization No. _____
e. ☐ Existing use for which no authorization has been received*
f. ☐ Other*

* If checked, provide details under Item 7

6. If an individual, or partnership are you a citizen(s) of the United States? ☐ Yes ☐ No

7. Project description (describe in detail): (a) Type of system or facility, (e.g. canal, pipeline, road); (b) related structures and facilities; (c) physical specifications (length, width, grading, etc.); (d) term of years needed; (e) time of year of use or operation; (f) volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. (Attach additional sheets, if additional space is needed.)

See attached sheets.

8. Attach map covering area and show location of project proposal Attached

9. State or local government approval: ☐ Attached ☐ Applied for ☒ Not required

10. Nonreturnable application fee: ☒ Attached ☐ Not required

11. Does project cross international boundary or affect international waterways? ☐ Yes ☒ No (If "yes," indicate on map)

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

The statement of technical and financial capability will be filed later.

Describe other reasonable alternative routes and modes considered.

Other alternative routes and modes considered were: 1) Location of the water storage reservoir near the plant site in Section 32, 2) A diversion and pipeline from the White River in Section 32 or 33, 3) A White River and/or reservoir diversion and pipeline near the Ignatio Bridge crossing, and 4) Purchase surplus water from the Deseret Generation and Transmission Powerplant.

b. Why were these alternatives not selected?

1) The proposed facilities and rough topography on Section 32, will not allow construction of the reservoir of sufficient size to provide the required storage capacity. 2) The selected river intake sites in Section 32 & 33 were accessible only at a great expense and they were located upstream of the proposed White River Dam which would result in minimum river flows dictating the withdrawal amounts and time periods. 3) The proposed pipeline routing would result in an additional 5500 ft of pipeline compared to the preferred alternative, and greater portions of the pipeline would require federal ROWS. 4) The cost of water would not be cost effective and an additional 46,000 ft of pipeline required.

c. Give explanation as to why it is necessary to cross Federal lands:

The most cost-effective intake location and pipeline routing are shown on the attached map. Because of the need for locating the water storage reservoir in Section 31 (as described in 13.b.1) and the location of the retorted shale pile in the east 3/4 of Section 6, the pipeline routing must cross through federal lands in Sections 1 and 31.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. (Specify number, date, code, or name.)

Right-of-Way Filing, May 28, 1981 for main access road; serial number 48 942, Paraho Development Corporation.

Right-of-Way Filing, September 23, 1981 for oil pipeline, Paraho Development Corporation.

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal (construction, operation, and maintenance); (b) estimated cost of next best alternative; and (c) expected public benefits. The project is needed to provide water for the construction and operation of the proposed Paraho-Ute Oil Shale project. (a) Total construction costs for the pipeline, access road, intake structure, powerline, and water storage reservoir is estimated to be \$1.9 million with annual operation and maintenance costs of approximately \$0.2 million. (b) The total estimated cost of the next best alternative, and river and/or reservoir intake at Ignatio is 2.3 million with annual operation & maintenance costs of \$0.25 million. (c) The expected public benefits are included in the Uintah Basin Synfuels Environmental Impact Statement.

16. Describe probable effects on the population in the area, including the... The probable effects on the population are included in the Uintah Basin Synfuels Environmental Impact Statement.

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability. The likely environmental effects for (a), (b), (c), (e), and (f) are included in the Uintah Basin Synfuels Environmental Impact Statement. (d) The proposed intake structure will not substantively cause a control or structural change to the White River channel. Present design specifies a narrow intake area 10 feet in width incised 10 feet into the northeastern bank of the White River on Section 1 (SE 1/4, SW 1/4). This intake structure will not protrude into the existing channel nor will it significantly modify the cross section at that point in the stream. No control points will be affected by the intake structure at its proposed location.

18. Describe the probable effects that the proposed project will have...

See attached sheet.

19. Name all the Department(s)/Agency(ies) where this application is being filed.

U.S. Army Corp of Engineers in conjunction with Paraho's Section 404-Dredge and Fill Permit Application.

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

Robert H. Hirstand

Date

Nov 19, 1982

Title 18, U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

**Water
Acquisition**
APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS
AND FACILITIES ON FEDERAL LANDS

GENERAL INFORMATION

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(For Supplemental, see reverse)

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions.	CHECK APPROPRIATE BLOCK	
I - PRIVATE CORPORATIONS	ATTACHED	FILED *
a. Articles of Incorporation	<input type="checkbox"/>	<input type="checkbox"/>
b. Corporation Bylaws	<input type="checkbox"/>	<input type="checkbox"/>
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	<input type="checkbox"/>	<input type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input type="checkbox"/>
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	<input type="checkbox"/>	<input type="checkbox"/>
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	<input type="checkbox"/>	<input type="checkbox"/>
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	<input type="checkbox"/>	<input type="checkbox"/>

II - PUBLIC CORPORATIONS

a. Copy of law forming corporation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Proof of organization	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Copy of Bylaws	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input type="checkbox"/>	<input type="checkbox"/>

III - PARTNERSHIP OR OTHER UNINCORPORATED ENTITY

a. Articles of association, if any	<input type="checkbox"/>	<input type="checkbox"/>
b. If one partner is authorized to sign, resolution authorizing action is	<input type="checkbox"/>	<input type="checkbox"/>
c. Name and address of each participant, partner, association, or other	<input type="checkbox"/>	<input type="checkbox"/>
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input type="checkbox"/>	<input type="checkbox"/>

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information (e.g. number, date, code, name). If not on file or current, attach the requested information.

Right-of-Way Filing, May 28, 1981 for main access road to project site, serial number U 48942, Paraho Development Corporation

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Water Acquisition
7. Project Description

APPLICATION FOR TRANSPORTATION AND
UTILITY SYSTEMS AND FACILITIES
ON FEDERAL LANDS

7. A. Paraho proposes to construct a direct river intake structure and pumping station on the White River in the south half of Section 1, T10S, R24E, in order to divert up to 6 cfs of water to be used in the retorting of oil shale. The intake site is also the nearest point on the river which will experience the entire fluctuations of the proposed White River reservoir (4966' to 5017') thereby enabling Paraho to construct a reservoir intake structure just prior to the operation of the White River Dam. A 14" to 16" steel pipeline, approximately 16,000 LF, (with four feet of cover) will be constructed to transport water from the river to a water storage reservoir and an additional pumping station in the north 1/2 of Section 31, T9S, R25E, and thence onto the water treatment plant in Section 32. The water storage reservoir could have a maximum storage capacity of 800 AF (100 day supply) to provide "back-up" water for the Paraho-Ute project during periods of low stream flow if the White River Dam is not constructed in the immediate future. In the event of the construction of the White River Dam, a minimum water storage reservoir of 7 to 10 days (56 to 80 AF) would be utilized to provide for an emergency such as a mechanical failure.

B. In order to construct and operate the pipeline and water storage reservoir, an access road will be constructed in generally the same corridor as the pipeline with the exception of the pipeline run from the water storage reservoir to the plant site. The road would run from the proposed mancamp in Section 6, through Section 1 to the river intake structure and from the mancamp access road in the south portion of Section 31 to the water storage reservoir.

An underground powerline and communications line will parallel the waterline from the plant site to the river intake structure in order to provide power for both pump stations with a remote control option from the plant site.

C. The buried pipeline, access roads, underground powerline, and communication line will be located in a proposed common corridor of 200 feet in width. The only exception is the deviation of the access road from the pipeline alignment in Section 1, required to traverse the steep foothills near the river at a maximum of a 9% slope. The right-of-way would extend for approximately 4400 feet in Section 1 and 5800 feet in Section 31. The total area included within this right-of-way corridor would be approximately 45 acres, of

Water Acquisition

7. Project Description, continued Application for Transportation and Utility Systems and Facilities on Federal Lands, continued

which less than 20 acres would be disturbed by construction. The access road will consist of a 24 foot wide gravel road with drainage culverts placed at required locations.

The right-of-way area required for the 100 day supply water storage reservoir, would be approximately 75 acres, of which roughly 60 acres would be inundated by the reservoir. The embankment of the water storage reservoir would be approximately 70 feet high with a crest length of 700 feet. The 7 to 10 day storage reservoir would require a right-of-way of 15 acres of land, of which less than 10 acres would be inundated. It is not anticipated that the water storage reservoir will be fenced. The 7 to 10 day storage reservoir is contained within the boundaries of the 100 day storage reservoir.

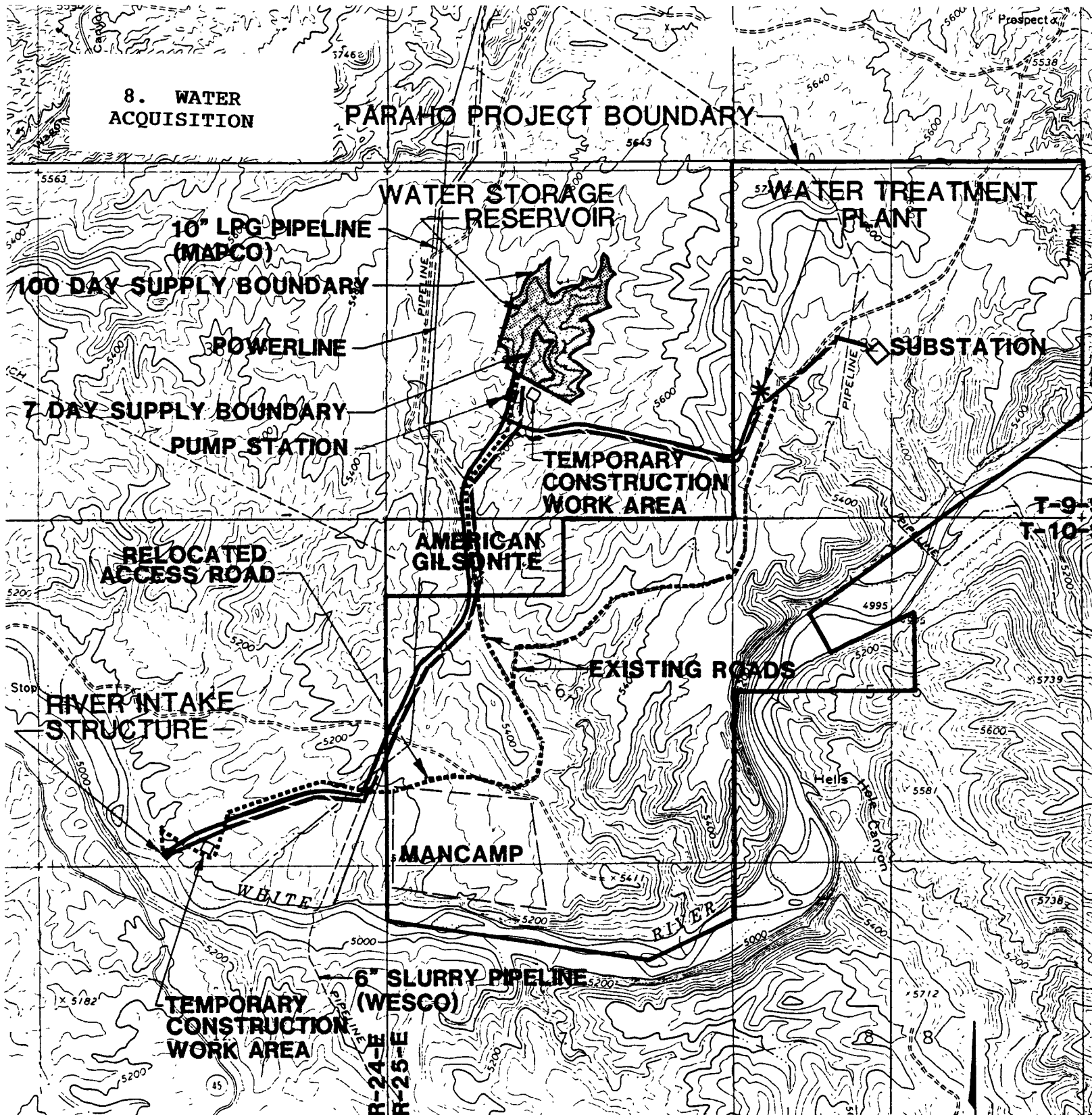
D. The pipeline system and water storage reservoir with related facilities (access road, powerline and communication line) will be required for the 30 year life of the Paraho-Ute project.

E. It is anticipated that the pipeline and water storage reservoir will operate throughout the year with insignificant amounts of "down time". During operation phases the access roads would be utilized for daily maintenance checks at each pump station.

F. The pump stations and pipeline will be designed to convey a maximum of 6 cfs of water; 4 cfs will be the average plant use. Evaporation and seepage losses for the water storage reservoir could result in an additional 0.5 cfs withdrawal from the river for a total of 4.5 cfs average use.

G. Proposed construction time for the waterline, water storage reservoirs, access road, powerline, and communications line will be 6 months with construction to begin in June of 1983.

H. Two temporary construction work areas (maximum of five acres) will be located on federal land. One work area will be located on a flatter slope of the foothills approximately 700 feet east of intake structures and the second work area will be located just south of the embankment for the water storage reservoir. The first work area is required to minimize construction activity along the river. The construction will disturb a maximum of five acres.



KEY

- PROPOSED WATERLINE ROUTE
- PROPOSED ACCESS ROAD
- PROPOSED POWER AND COMMUNICATION LINE ROUTE

SCALE 1"=2000'

PROPOSED WATER SUPPLY AND STORAGE SYSTEM

Water Acquisition
18. Probable Effects

18. The probable effects of the project on:

aquatic biota will be negligible because of the small amount of water withdrawn and the limited extent of the inlet structure;

vegetation will be slight due to the short term impact to the shadscale-greasewood community;

wildlife will be minimal because of the very limited areal extent of the project;

Colorado squawfish will be minimal, because mitigation of these impacts will include construction periods avoiding low flow periods of the White River and avoiding critical spawning periods. Best engineering practices will reduce project induced sediment flow into the river;

Threatened and endangered wildlife and vegetation species will not be affected due to the short construction time and small areal extent of the project.

APPLICATION FOR A DEPARTMENT OF THE ARMY PERMIT
For use of this form, see EP 1145-2-1

OMB APPROVAL NO. 0702-0038
Expires 30 September 1983

The Department of the Army permit program is authorized by Section 10 of the River and Harbor Act of 1899, Section 404 of P. L. 92-500 and Section 103 of P. L. 92-532. These laws require permits authorizing structures and work in or affecting navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Information provided in ENG Form 4345 will be used in evaluating the application for a permit. Information in the application is made a matter of public record through issuance of a public notice. Disclosure of the information requested is voluntary; however, the data requested are necessary in order to communicate with the applicant and to evaluate the permit application. If necessary information is not provided, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and checklist) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

1. Application number (To be assigned by Corps)		2. Date 15 Dec. 1982 Day Mo. Yr.		3. For Corps use only.	
4. Name and address of applicant. Paraho Development Corporation 183 Inverness Drive West, Suite 300A Englewood, CO 80112 Telephone no. during business hours A/C (303) 694-4949 A/C () 321-9070		5. Name, address and title of authorized agent. Larry A. Lukens, President Paraho Development Corporation 183 Inverness Drive, West, Suite 300A Englewood, CO 80112 Telephone no. during business hours A/C 303, 694-4949 A/C 800, 321-9070			
6. Describe in detail the proposed activity, its purpose and intended use (private, public, commercial or other) including description of the type of structures, if any to be erected on fills, or pile or float-supported platforms, the type, composition and quantity of materials to be discharged or dumped and means of conveyance, and the source of discharge or fill material. If additional space is needed, use Block 14. See attached explanation RECEIVED DEC 20 1982 DIVISION OF OIL, GAS & MINING					
7. Names, addresses and telephone numbers of adjoining property owners, lessees, etc., whose property also adjoins the waterway. Public lands under the management of the BLM Vernal District office, Mr. Lloyd Ferguson, District Manager, 170 South 500 East, Vernal, Utah 84078, 801)789-1362					
8. Location where proposed activity exists or will occur. Address: approx. 1 mile SE of Ignatio Bridge Street, road or other descriptive location Bonanza In or near city or town Uintah Utah County State Zip Code Tax Assessors Description: (If known) Map No. Subdiv. No. Lot No. 1 10S 24E Sec. Twp. Rge.					
9. Name of waterway at location of the activity.					

10. Date activity is proposed to commence. August 1983

Date activity is expected to be completed December 1983

11. Is any portion of the activity for which authorization is sought now complete? ☐ YES ☒ NO
If answer is "Yes" give reasons in the remark section. Month and year the activity was completed _____
_____ . Indicate the existing work on the drawings.

12. List all approvals or certifications required by other federal, interstate, state or local agencies for any structures, construction, discharges, deposits or other activities described in this application.

<u>Issuing Agency</u>	<u>Type Approval</u>	<u>Identification No.</u>	<u>Date of Application</u>	<u>Date of Approval</u>
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See attached

13. Has any agency denied approval for the activity described herein or for any activity directly related to the activity described herein?

☐ Yes ☒ No (If "Yes" explain in remarks)

14. Remarks or additional information.

Endangered species surveys and cultural and paleontological resource surveys of the intake site and associated rights-of-way were conducted on October 26, 1982. These investigations found no endangered plants or terrestrial wildlife, or cultural and paleontological resources within the affected area. The reports of these studies were provided to BLM for incorporation into the Uintah Basin Synfuels EIS.

15. Application is hereby made for a permit or permits to authorize the activities described herein. I certify that I am familiar with the information contained in this application, and that to the best of my knowledge and belief such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.



Signature of Applicant or Authorized Agent

The application must be signed by the applicant; however, it may be signed by a duly authorized agent (named in Item 5) if this form is accompanied by a statement by the applicant designating the agent and agreeing to furnish upon request, supplemental information in support of the application.

18 U. S. C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of The United States knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false fictitious or fraudulent statement or entry, shall be fined not more than \$10,000 or imprisoned not more than five years, or both. Do not send a permit processing fee with this application. The appropriate fee will be assessed when a permit is issued.

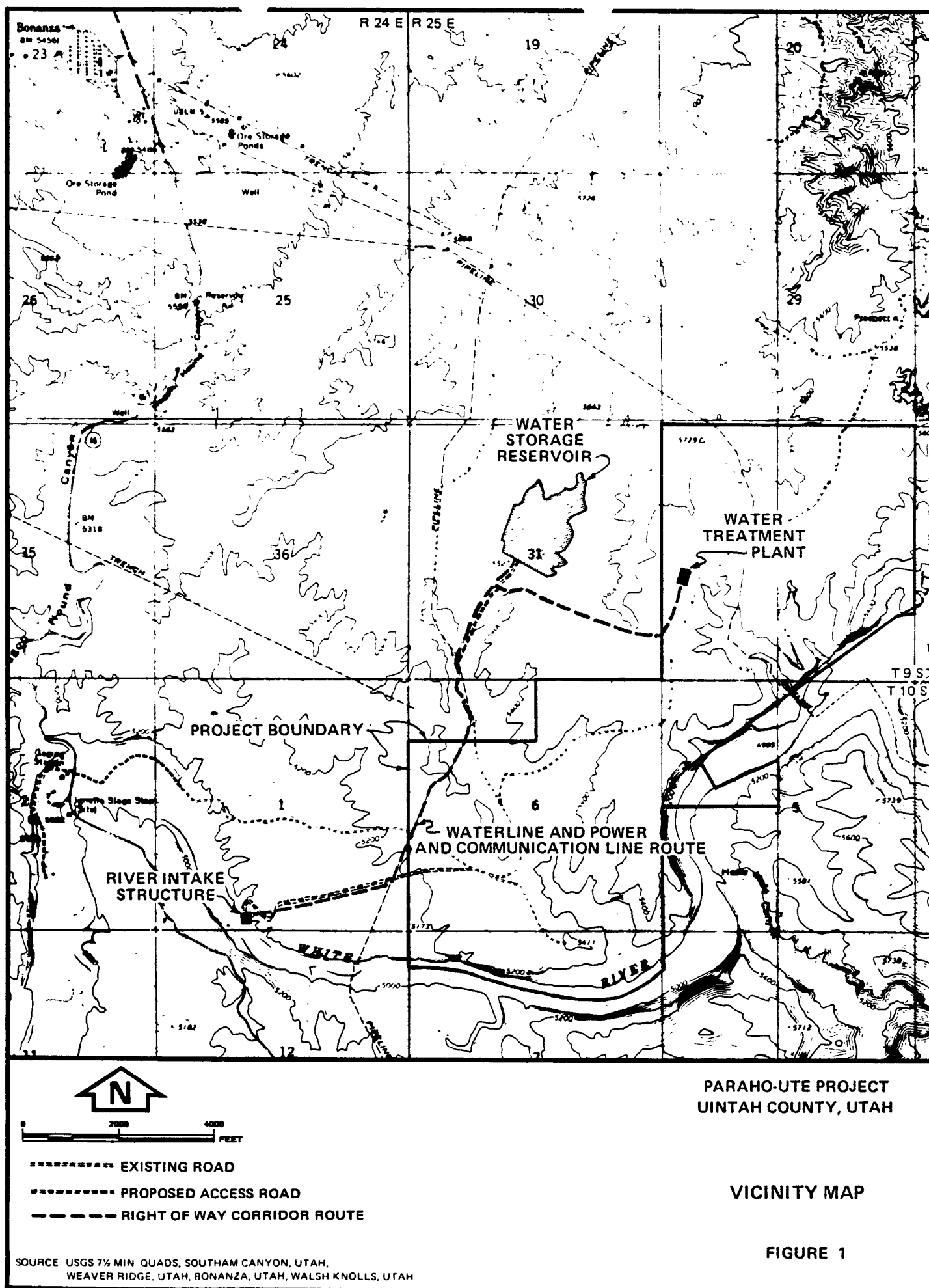
Item 6: ENG Form 4345

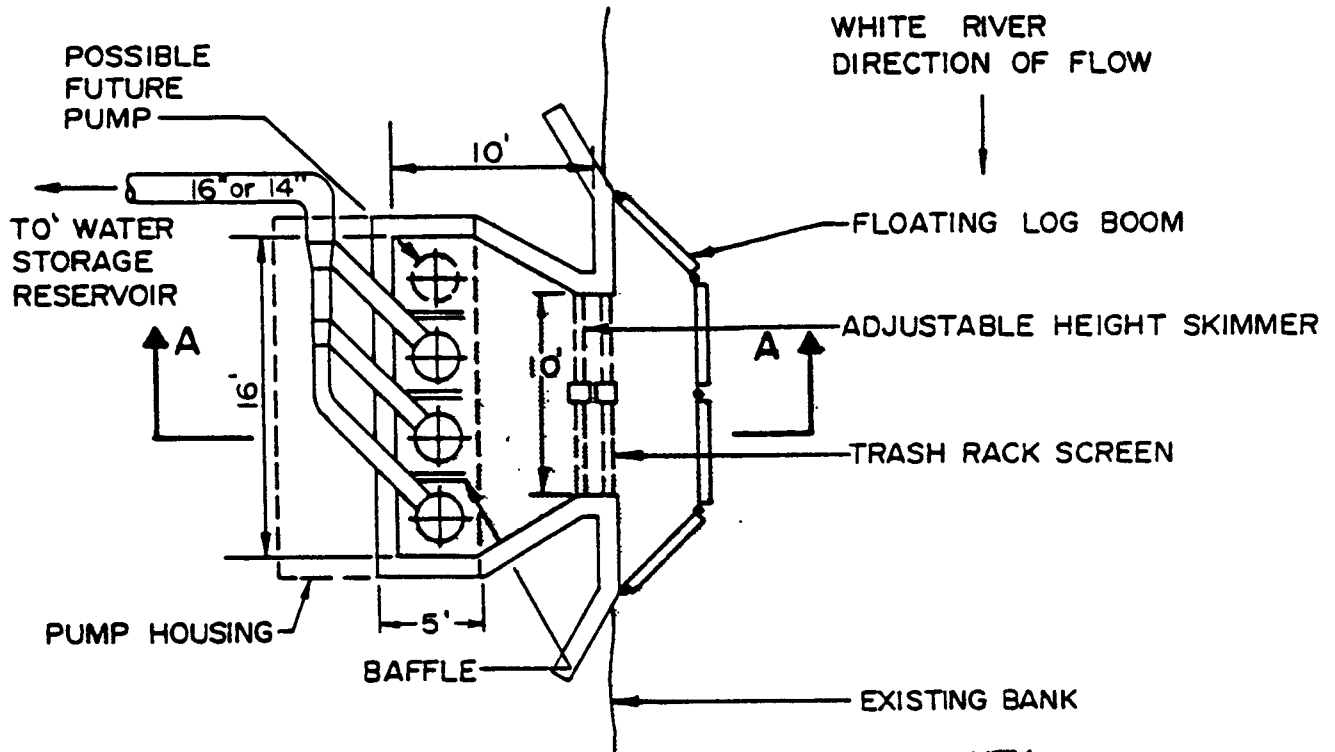
DESCRIPTION OF PROPOSED ACTIVITY

The proposed activity, to provide water for use in a commercial shale oil facility, involves construction and operation of a water intake structure and pumping station on the White River (T10S, R24E, Section 1) (Figure 1). The proposed structure will divert four to six cfs of water to meet project needs.

The design of the intake structure specifies construction of a pump housing with space for four pump units, an adjustable height skimmer, trash rack screen and floating log boom. This structure is designed to be set into the bank such that the outer wall of the intake area is generally flush with the existing bank (Figure 2). An estimated 400 cubic yards of material will be removed to allow construction of the intake structure. This material will be used to grade the final turn of the access road leading to the intake structure (Figure 3).

A coffer dam requiring 1,400 cubic yards of rip-rap and coarse granular material imported to the project site (most likely from gravel pits along the Green River) will be built to divert water around the intake site during construction. Current dam design specifications call for a 25-foot radius enclosure, with 1-1/2:1 side slopes, and a 10-foot crest width to protect the intake site during construction (Figure 4). The dam will average seven feet in height and is designed to withstand the ordinary high water level (two year return interval) for the month of July (Figure 5). A PVC liner will be placed on the outer slope side of the dam to limit the amount of fines that may wash out from the dam. The estimated sediment discharge to the river from coffer dam installation is 50 tons. The sediment would consist of fine granular material that may wash away during the one- to two-day period required to install the coffer dam. After the coffer dam is installed, the



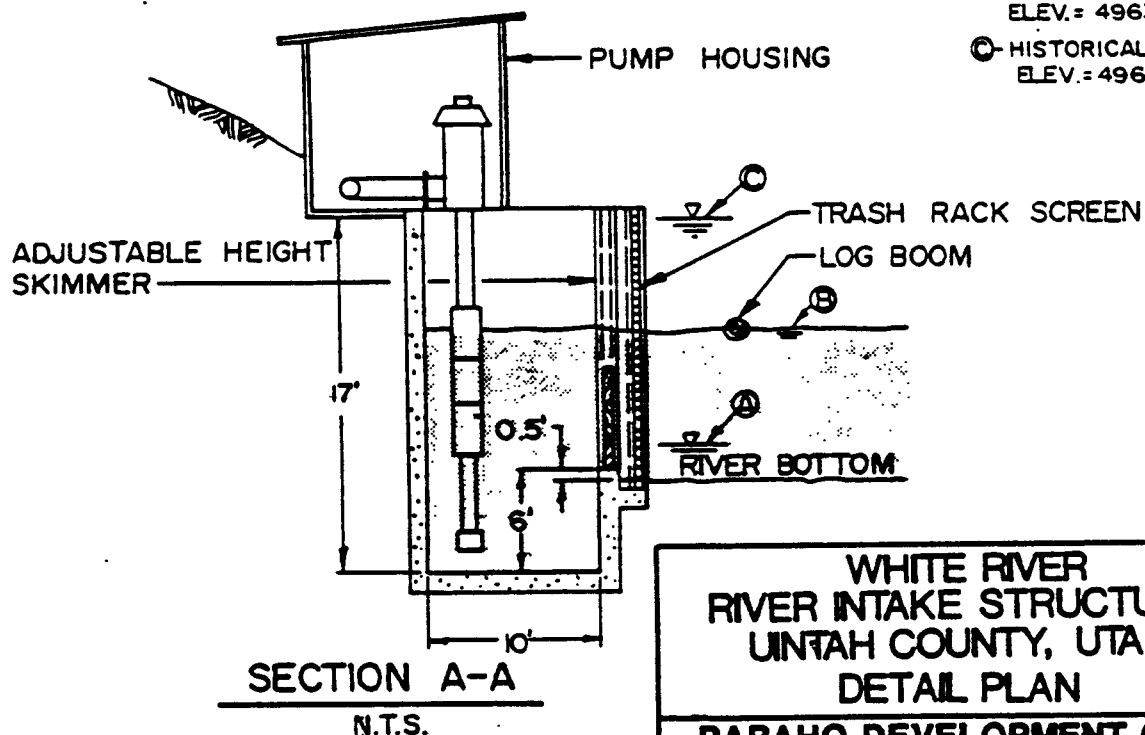


PLAN

1" = 10'

KEY

- Ⓐ - ORDINARY LOW WATER LEVEL
(2 YR. RETURN PERIOD)
ELEV. = 4958 ±
- Ⓑ - ORDINARY HIGH WATER LEVEL
(2 YR. RETURN PERIOD)
ELEV. = 4963 ±
- Ⓒ - HISTORICAL HIGH WATER LEVEL
ELEV. = 4967 ±



WHITE RIVER
RIVER INTAKE STRUCTURE
UNTAH COUNTY, UTAH
DETAIL PLAN

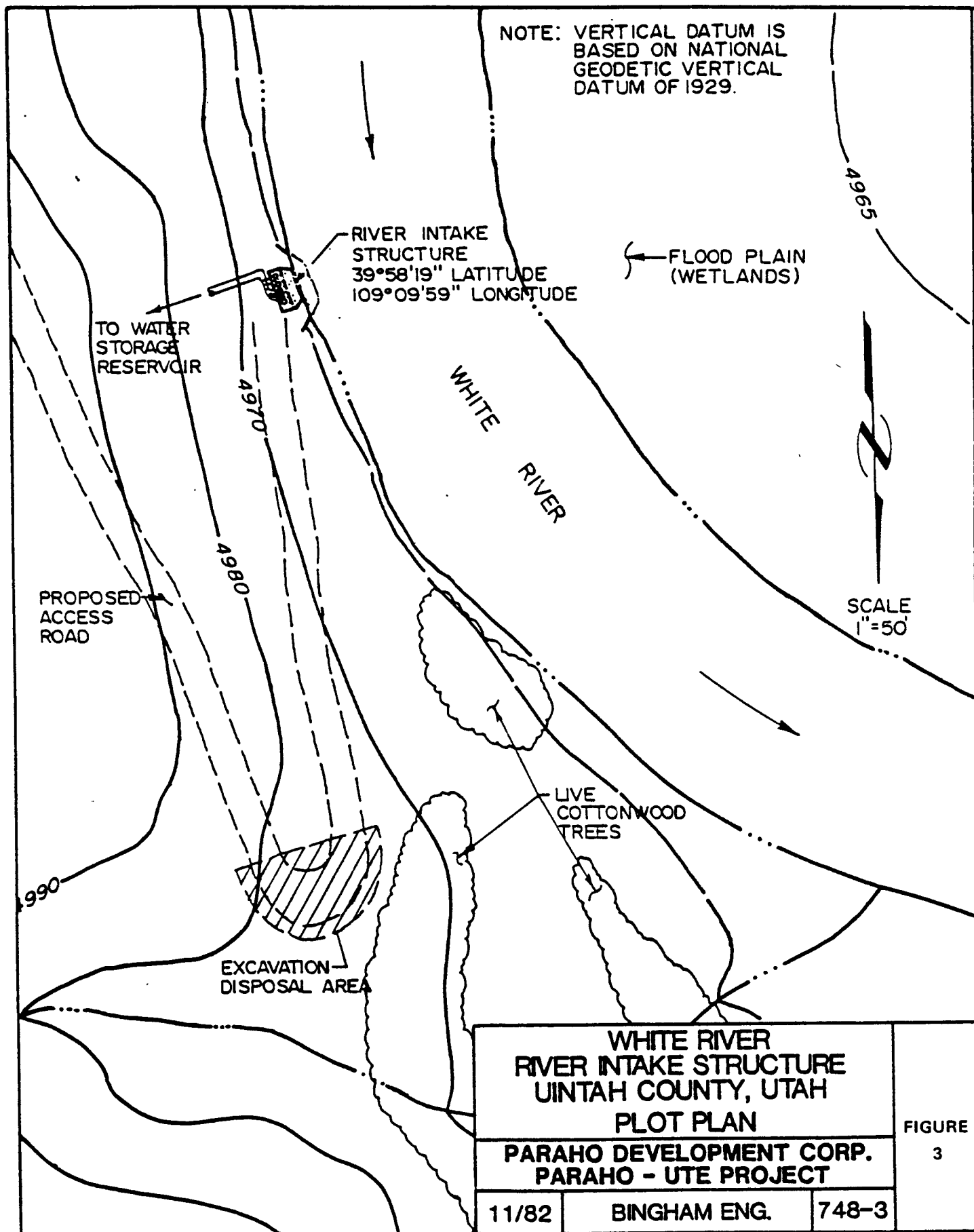
PARAHO DEVELOPMENT CORP.
PARAHO - UTE PROJECT

11/82

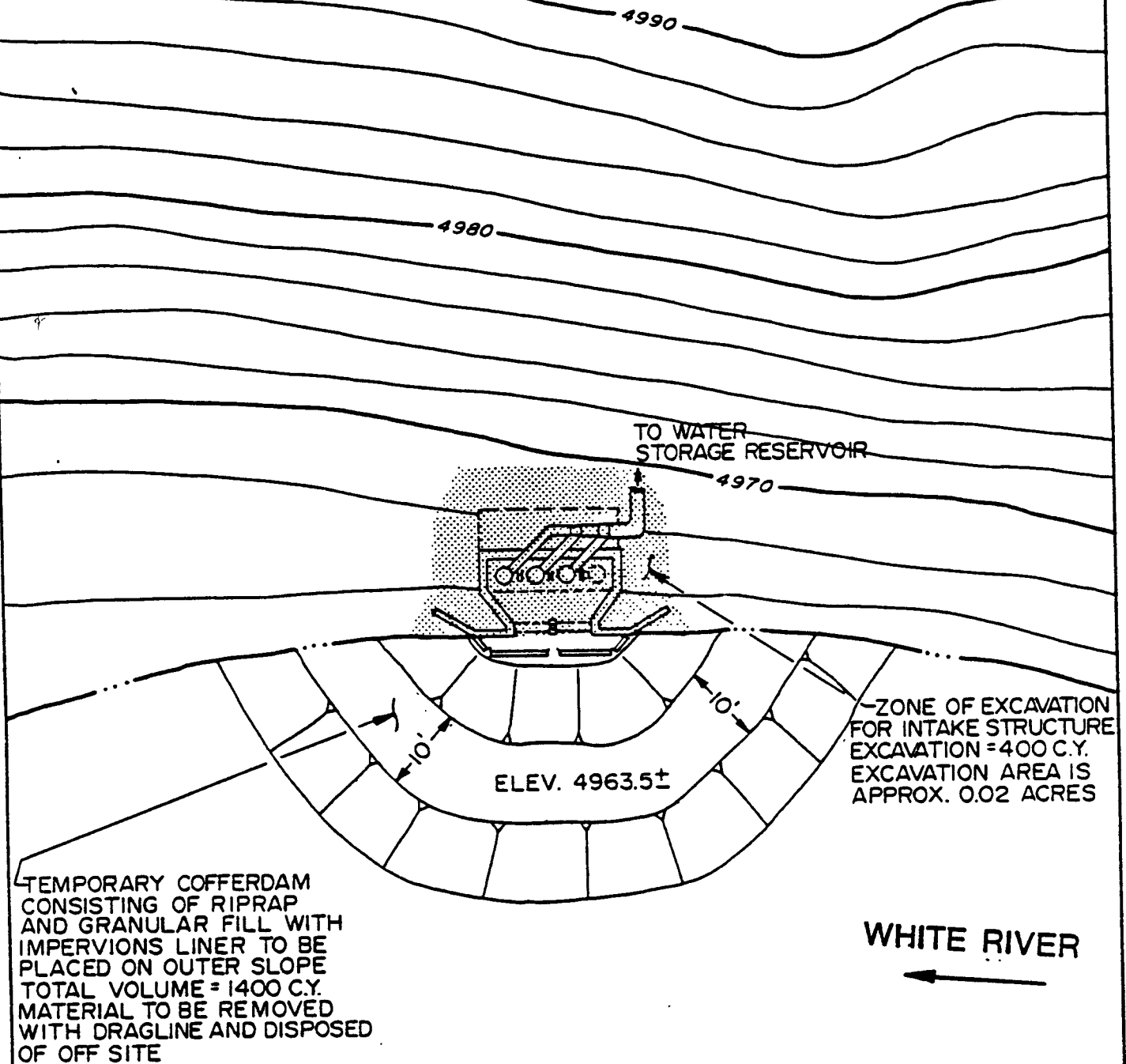
BINGHAM ENG.

748-3

FIGURE
2



NOTE: VERTICAL DATUM IS BASED ON NATIONAL GEODETIC
VERTICAL DATUM OF 1929.



SCALE: 1" = 20'

WHITE RIVER
RIVER INTAKE STRUCTURE
UINTAH COUNTY UTAH
PLAN VIEW

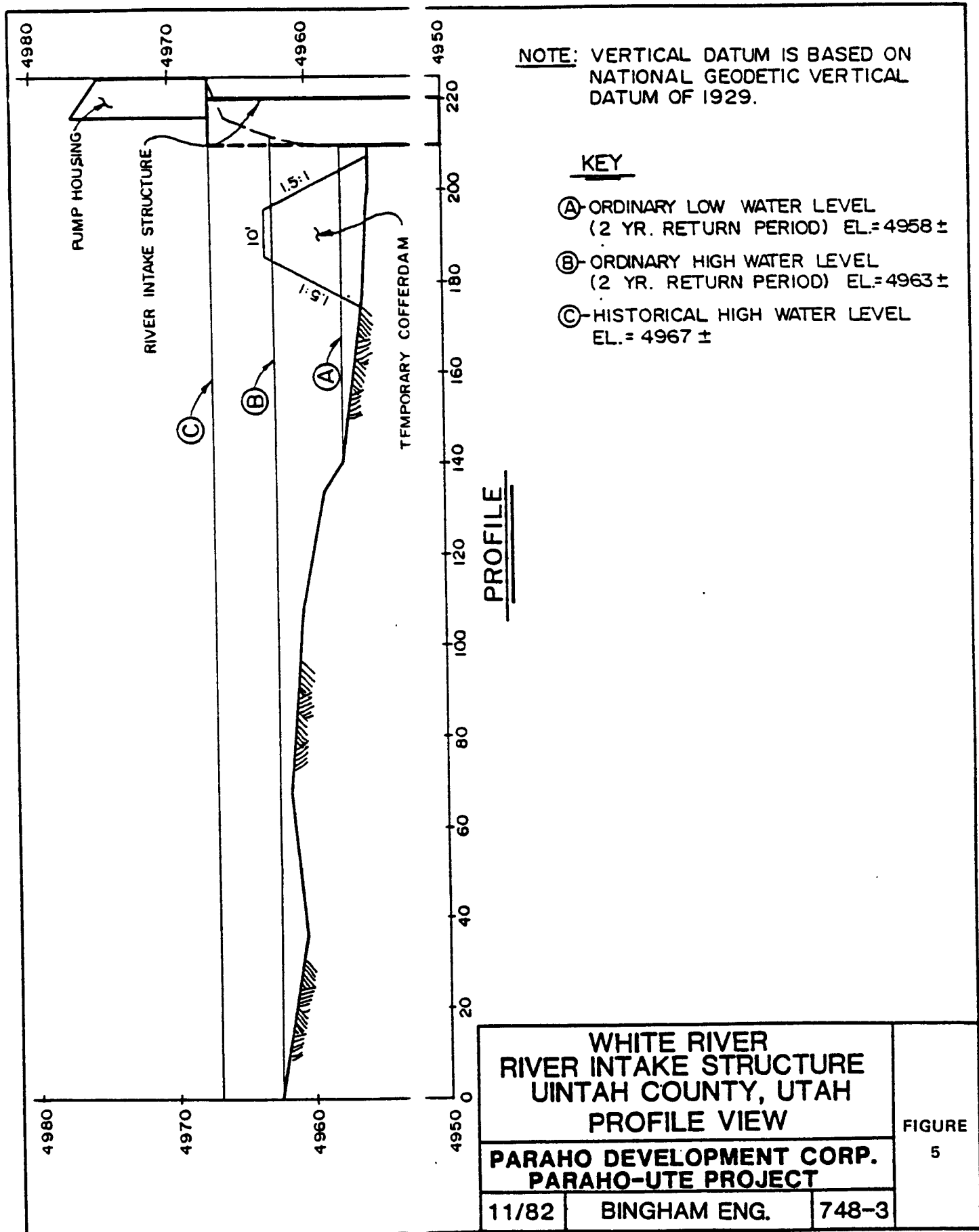
PARAHO DEVELOPMENT CORP.
PARAHO-UTE PROJECT

11/82

BINGHAM ENG.

748-3

FIGURE
4



construction area will be dewatered by pumping the estimated 16,000 gallons of water back into the river. This will be accomplished over a three- to five-hour period, in such a manner as to avoid adverse impacts and minimize temporary sediment increases to the river (i.e., through avoidance of high velocity discharges or the pumping of heavily sediment-laden waters). Additionally, periodic dewatering of the construction area may be required, due to potential seepage from underlying alluvium. The maximum pumping rate from such dewatering activities is estimated to be 100 gallons per minute, which would be pumped back into the river in a manner as to avoid adverse impacts. Total lifetime of the coffer dam is estimated to be less than 60 days.

After construction of the inlet structure is complete, the PVC liner will be removed and a dragline will be used to decommission the dam. The estimated sediment discharge to the river from coffer dam removal is 25 tons, consisting of fine granular material and river bottom (alluvial) materials washed away during the one- to two-day decommissioning period. All recoverable rip-rap and granular material will be placed in a waste rock storage pile in Section 6 for later use in project construction activities.

Construction of the intake facility also requires BLM approval of R-O-Ws for access roads, buried water pipeline, electrical transmission and data communication lines and off-site reservoir storage. (These associated facilities are being considered in BLM's Uintah Basin Synfuels EIS, currently in preparation.) The access roads, pipeline and transmission lines would be located in a common corridor approximately 200 feet in width extending roughly 4,400 feet through the south half of Section 1, T10S, R24E, and roughly 5,800 feet within Section 31, T9S, R25E. The total area included within this right-of-way corridor is approximately 46 acres, of which less than 20 acres would be disturbed by construction. The storage reservoir will require 75 acres in Section 31 to allow for a maximum storage capacity of 800

acre-feet (100-day supply). In the event of the construction of the White River dam, a minimum water storage reservoir of 7-10 days supply (56 to 80 acre-feet) would be utilized requiring a maximum of 15 acres in Section 31.

An additional five-acre site adjacent to the White River is to be included in the right-of-way for the river intake structure, of which less than two acres would be disturbed by construction. Forty-one acres underlying the completed access roads and intake structure would be reclaimed following initial construction activities.

Included in the design plans for this intake structure are measures designed to minimize potential impacts of the structure on endangered and threatened aquatic, wildlife and vegetation species (see attached Biological Assessment). In the event that the White River dam is not constructed, the proposed intake structure would be operated throughout the life of the Paraho-Ute project, then dismantled, removed, and the site reclaimed. Should the White River dam and reservoir be completed, the pumps and pump housing would be removed and the proposed intake structure would be abandoned. Water would thereafter be withdrawn directly from the White River reservoir by means of movable submersible pumps located on the inclined bank of the reservoir.

Item 12: ENG Form 4345

RELATED PERMITS AND APPROVALS

<u>Issuing Agency</u>	<u>Type Approval</u>	<u>I.D. No.</u>	<u>Date of Application</u>	<u>Date of Approval</u>
BLM	Main Access Road Right of Way	U-48942	5/28/81	Pending
BLM	Construction Access Road Right of Way	U-52093	9/23/81	Pending
BLM	Water Acquisition Rights of Way	U-52094	11/19/82	Pending
State Engineer	Application to Appropriate Water	--	Pending (12/82)	Pending